BRUHATH BENGALURU MAHANAGARA PALIKE

BYTARAYANAPURA DIVISION, BANGALORE

EMB

1st & Final Bill

Name of Work: - Construction of CC Road, RCC drain and RCC culvert in Someshwara Layout and surrounding area at Kattigenahalli in Ward No.05

Estimated Cost:- 97.00 Lakhs

Job Code: - 005-20-000081

Work Order: - BBMP/EE/BTP/WO/243/19-20, Dated: 21.03.2020

AS No: - EE(BTP)/AS/112/19-20, Dated:-16.03.2020

TS No: - SE(YNK)/TS/46/19-20, Dated: - 16.03.2020

Name of the Contractor: - M/s KRIDL

BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

1ST AND FINAL BILL

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Detailed Mesurements

Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount in Lakhs
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification										
	Qty Taken from Pre measurement page Item No. 1 page No.1 & 2,							**Cum**	**1333.88**		
	Schedule-B Quantity							**Cum**	**1160.07**		
	Total							**Cum**	**1333.88**	**137.80**	**183808.66**
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 2 page No.2 & 3							**Cum**	**262.33**		
	Schedule-B Quantity							**Cum**	**335.78**		
	Total							**Cum**	**262.33**	**5509.33**	**1445262.54**
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm										
	For Bed Concrete 24/08/2020 to 24/09/2020										
	Someshwara Layout										
	RHS	1	13.00	0.90			0.15		1.76		
		1	20.00	0.90			0.15		2.70		
		1	6.48	0.90			0.15		0.87		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	18.60	0.90			0.15		2.51		
		1	24.80	0.90			0.15		3.35		
		1	30.00	0.90			0.15		4.05		
		1	13.20	0.90			0.15		1.78		
		1	20.00	0.90			0.15		2.70		
	LHS	1	14.30	0.90			0.15		1.93		
		1	30.00	0.90			0.15		4.05		
		1	18.00	0.90			0.15		2.43		
		1	19.50	0.90			0.15		2.63		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	30.00	0.90			0.15		4.05		
		1	25.80	0.90			0.15		3.48		
		1	20.40	0.90			0.15		2.75		

81.54

	Cross - 2										
	RHS	1	30.00	0.90			0.15		4.05		
		1	10.00	0.90			0.15		1.35		
		1	25.30	0.90			0.15		3.42		
	LHS	1	21.70	0.90			0.15		2.93		
		1	22.20	0.90			0.15		3.00		
		1	16.10	0.90			0.15		2.17		
	Cross - 3										
	LHS	1	23.00	0.90			0.15		3.11		
		1	30.00	0.90			0.15		4.05		
		1	17.00	0.90			0.15		2.30		
	For RCC Culvert										
	Someshwara Layout, 2nd B Cross										
		1	8.10	1.60			0.25		3.24		
		1	8.00	1.60			0.25		3.20		
	Cross-1	1	6.50	1.60			0.25		2.60		
	Cross-3	1	6.50	1.60			0.25		2.60		
	Cross-4	1	8.00	1.60			0.25		3.20		
	For Side wall										
	Someshwara Layout										
	RHS	2	13.00	0.15	0.69	0.71	0.70		2.73		
		2	20.00	0.15	0.71	0.67	0.69		4.14		
		2	6.48	0.15	0.67	0.73	0.70		1.36		
		2	30.00	0.15	0.73	0.69	0.71		6.39		
		2	30.00	0.15	0.69	0.72	0.71		6.35		
		2	30.00	0.15	0.72	0.68	0.70		6.30		
		2	30.00	0.15	0.68	0.72	0.70		6.30		
		2	30.00	0.15	0.72	0.66	0.69		6.21		
		2	30.00	0.15	0.66	0.74	0.70		6.30		
		2	18.60	0.15	0.74	0.68	0.71		3.96		
		2	24.80	0.15	0.68	0.70	0.69		5.13		
		2	30.00	0.15	0.70	0.70	0.70		6.30		
		2	13.20	0.15	0.70	0.68	0.69		2.73		
		2	20.00	0.15	0.68	0.72	0.70		4.20		
	LHS	2	14.30	0.15	0.68	0.74	0.71		3.05		
		2	30.00	0.15	0.68	0.72	0.70		6.30		
		2	18.00	0.15	0.72	0.66	0.69		3.73		
		2	19.50	0.15	0.66	0.74	0.70		4.10		
		2	30.00	0.15	0.74	0.68	0.71		6.39		
		2	30.00	0.15	0.68	0.70	0.69		6.21		
		2	30.00	0.15	0.70	0.70	0.70		6.30		
		2	30.00	0.15	0.70	0.70	0.70		6.30		
		2	30.00	0.15	0.70	0.68	0.69		6.21		
		2	25.80	0.15	0.68	0.72	0.70		5.42		
		2	20.40	0.15	0.72	0.66	0.69		4.22		
	Cross - 2										
	RHS	2	30.00	0.15	0.66	0.74	0.70		6.30		
		2	10.00	0.15	0.74	0.68	0.71		2.13		
		2	25.30	0.15	0.68	0.70	0.69		5.24		
	LHS	2	21.70	0.15	0.70	0.68	0.69		4.49		
		2	22.20	0.15	0.68	0.74	0.71		4.73		
		2	16.10	0.15	0.68	0.72	0.70		3.38		
	Cross - 3										
	LHS	2	23.00	0.15	0.74	0.68	0.71		4.90		
		2	30.00	0.15	0.68	0.70	0.69		6.21		
		2	17.00	0.15	0.70	0.70	0.70		3.57		
	For RCC Culvert										
	Someshwara Layout, 2nd B Cross										
		2	8.10	0.45	0.65	0.65	0.65		4.74		

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		2	8.00	0.45	0.65	0.65	0.65		4.68		
	Cross-1	2	6.50	0.45	0.62	0.62	0.62		3.63		
	Cross-3	2	6.50	0.45	0.65	0.65	0.65		3.80		
	Cross-4	2	8.00	0.45	0.63	0.63	0.63		4.54		
	For RCC Culvert Ramp										
	Someshwara Layout, 2nd B Cross										
		2	8.10	1.00	0.20	0.10	0.15		2.43		
		2	8.00	1.00	0.20	0.10	0.15		2.40		
	Cross-1	2	6.50	1.00	0.20	0.10	0.15		1.95		
	Cross-3	2	6.50	1.00	0.20	0.10	0.15		1.95		
	Cross-4	2	8.00	1.00	0.20	0.10	0.15		2.40		
								Present Qty =	**Cum**	**322.84**	
								Limited Qty =	**Cum**	**304.13**	
								Schedule-B Quantity	**Cum**	**249.62**	
								Quantity Upto 125%	**Cum**	**304.13**	**7189.42**	**2186517.76**
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications										
	Qty Taken from Pre measurement page Item No. 4 page No.3 & 5								**Tonne**	**20.29**	
								Schedule-B Quantity	**Tonne**	**16.98**	
								Quantity Upto 125%	**Tonne**	**20.29**	**72326.98**	**1467251.15**
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in										
	For RCC Drain Covering Slab										
	Someshwara Layout										
	RHS	1	13.00	0.90					11.70		
		1	20.00	0.90					18.00		
		1	6.48	0.90					5.83		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	18.60	0.90					16.74		
		1	24.80	0.90					22.32		
		1	30.00	0.90					27.00		
		1	13.20	0.90					11.88		
		1	20.00	0.90					18.00		
	LHS	1	14.30	0.90					12.87		
		1	30.00	0.90					27.00		
		1	18.00	0.90					16.20		
		1	19.50	0.90					17.55		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	25.80	0.90					23.22		
		1	20.40	0.90					18.36		
	Cross - 2										
	RHS	1	30.00	0.90					27.00		
		1	10.00	0.90					9.00		
		1	25.30	0.90					22.77		
	LHS	1	21.70	0.90					19.53		
		1	22.20	0.90					19.98		

		1	16.10	0.90					14.49		
	Cross - 3										
	LHS	1	23.00	0.90					20.70		
		1	30.00	0.90					27.00		
		1	17.00	0.90				77.49	15.30		
								Present Qty=	**Sqm**	**719.44**		
								Limited Qty=	**Sqm**	**708.57**		
								Schedule-B Quantity	**Sqm**	**549.00**		
								Quantity Upto 125%	**Sqm**	**686.25**	**2337.00**	**1603766.25**
								Quantity above 125%	**Sqm**	**22.32**	**2337.00**	**52161.84**
6	Providing and fixing Precast RCC cover slabs of 230 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrteé finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)											
	For RCC Culvert											
	Someshwara Layout, 2nd B Cross											
		1	8.10	1.50					12.15		
		1	8.00	1.50					12.00		
	Cross-1	1	6.50	1.50					9.75		
	Cross-3	1	6.50	1.50					9.75		
	Cross-4	1	8.00	1.50					12.00		
								Present Qty=	**Sqm**	**55.65**		
								Schedule-B Quantity	**Sqm**	**23.70**		
								Quantity Upto 125%	**Sqm**	**29.63**	**5418.00**	**160508.25**
								Quantity above 125%	**Sqm**	**26.03**	**5418.00**	**141003.45**
7	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications											
								Qty Taken from Pre measurement page Item No. 7 page No.5	**Cum**	**731.10**		
								Schedule-B Quantity	**Cum**	**1540.70**		
								Total	**Cum**	**731.10**	**6.36**	**4649.80**
8	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406											
								Qty Taken from Pre measurement page Item No. 8 page No.5 & 6	**Cum**	**109.67**		
								Schedule-B Quantity	**Cum**	**231.11**		
								Total	**Cum**	**109.67**	**2001.28**	**219470.37**
9	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) 07/9/2020 to 08/10/2020											
	For CC Road											
	Doddamma Devi Temple Opposite Road	1	15.00	3.50	3.30	3.40	0.15		7.65		
		1	15.00	3.30	3.00	3.15	0.15		7.09		

		1	15.00	3.30	3.00	3.15	0.15		7.09		
		1	15.00	3.30	3.00	3.15	0.15		7.09		
		1	16.00	3.30	3.00	3.15	0.15		7.56		
	Cross - 1	1	15.00	1.90	2.50	2.20	0.15		4.95		
		1	18.00	3.00	3.30	3.15	0.15		8.51		
	2nd B Cross	1	15.00	5.70	5.70	5.70	0.15		12.83		
		1	15.00	5.70	5.30	5.50	0.15		12.38		
		1	15.00	5.30	5.45	5.38	0.15		12.09		
		1	15.00	5.45	5.00	5.23	0.15	94.93	11.76		
		1	15.00	5.00	4.50	4.75	0.15		10.69		
							Present Qty=	Cum	109.67		
							Schedule-B Quantity	Cum	231.11		
							Total	Cum	109.67	5354.02	587148.60
10	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift										
	Qty Taken from Pre measurement page Item No. 10 page No.6							Cum	731.10		
							Schedule-B Quantity	Cum	1540.70		
							Total	Cum	731.10	72.08	52697.69
	EIRL										
EIRL-1	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications										
	Qty Taken from Pre measurement EIRL-1 of Vide Qty No.01 Page No.6 & 7							Cum	109.67	952.94	104504.17
EIRL-2	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specification										
	Qty Taken from Pre measurement EIRL-2, 50% of Vide Qty No.01 Page No.7							Cum	666.94	217.08	144779.34
										Total	8353529.86
										GST Charges 12%	1002423.58
										KRIDL Charges 4%	334141.19
										Grand Total	9690094.64
	Rupees Ninety Six Lakh(s) Ninety Thousand Ninety Four And Paise Sixty Four Only										

10/10/2020

Assistant Engineer
Ward No.05

10/10/2020

Assistant Executive Engineer
Bytarayanapura Sub-Division